

Figure 1

CLUSTAL W(1.4) multiple sequence alignment of
FOX C2 RT (SEQ ID NO:1) and FOX C3 RT (SEQ ID NO:2)

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FOX C2 RT  MNQISKNDSLDVLQDEMGOQKKTSESERKSLSGWDYFKSLGSIGRLPHFSRGIELREVKKA 60
*****.*****
FOX C3 RT  MNQISKNDSLDVLQDEIGQKKTSESERKSSSGWDYFKSLGSIGRLPHFNRMELKEVKRA 60

FOX C2 RT  NRYLAFQEQRIVSAIEAGEIRKAVLVWLCLMKVSRSYQILLFNRVCKGWYWRWSTARVEE 120
*****.***.*
FOX C3 RT  NRYLAFQEKRIVTAVEQGEIRKAVLVWLCLMKISRSYQILLFNRVCKGWYWRWSSARVEE 120

FOX C2 RT  IIFGAMNKMRSWDMKLLIHRFYILKKNKGMRPIGAPNYESRMISKALTDMLYSITEKSRS 180
*****.*****
FOX C3 RT  VIFGAMNKMRAWDMKLLIHRFYILKKNKGMRPIGAPNYESRMISKALTDLLYTVTEKSRS 180

FOX C2 RT  AEQHGYMKKRGAWSAILECLSKLKEGYAGYFDLKSFFNTVEPFIYFRKLEEVDKKLTKL 240
*****
FOX C3 RT  AEQHGYMKKRGAWSAILECLSKLKEGYAGYFDLKSFFNTVEPFIYFRKLEEVDKKLTKV 240

FOX C2 RT  ISNVIKIEYRFSELLPESELNPKANRKNLTERTGVPQGLSLSPLLSTWALEYYGRPENL 300
*****.*****
FOX C3 RT  ISNVIKIEYRFTPELLPESELNPKGKRKNLTVRTGVPQGLSLSPLLSTWALEYYGRPENL 300

FOX C2 RT  IMYADDGIYFFKHNIKFTRWIERMGRAGIEISPEKSGSLTPVFKFCGVTIDQPKRLVTY 360
*****.*****
FOX C3 RT  IMYADDGIYFFRHNISKFTRWLERMSRAGIEIAPEKSGSLKPVFKFCGVEIDQVKRLVTY 360

FOX C2 RT  EGQSVSWDNPELEKWLKSINNLYGTYKKEPEWSWTVNGESFITKRKLNLTWMEIVKVYWFR 420
.*****.***
FOX C3 RT  DKQSVSWDNPDLPEWLKSIHNLGYTKKEPEWSWTVDQNAFITKRNLNITWMETLKVYWFR 420

FOX C2 RT  IIHGKMWNGYTVFLASGWRILDIFGSSSWACNELLMEVKRRREELESIKTFGLEKAIEYEA 480
*.*****.*****
FOX C3 RT  IVEGKMWNGYTVFLTSGWRVLDIFGSSSWSCNELLKIIKERKNELESIAFGLEKAIEYEA 480

FOX C2 RT  FSYAPVRKGSYRRHYNNGAQETANKQEYWEIMQFHNLRQQLRAIE 527
*****
FOX C3 RT  FSYAPVRKGSYRRHYNNGAPKTVNKQEYWEIMEFHNLRQQLRAIE 527

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Figure 2

A

| | | | |
|--------|------------|---------|-----|
| | <u>dA*</u> | | |
| | ————— | | 3R* |
| + dCGT | | dCT | |
| + | | ddT ddG | |

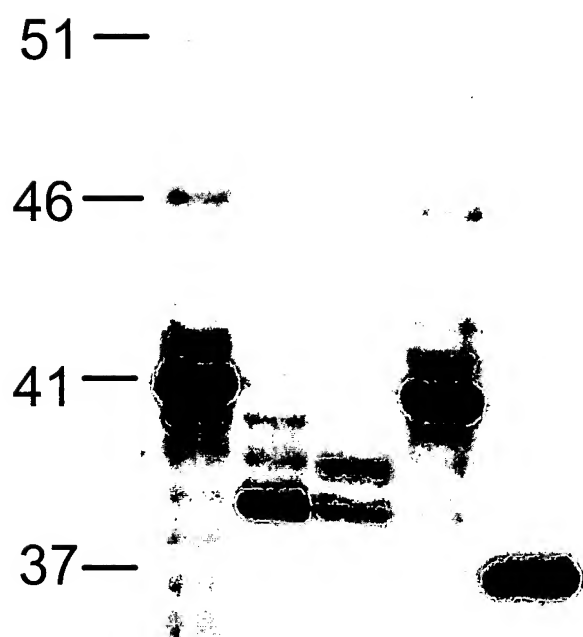


Figure 4

B

| 3R oligo (37 nt) | | Nts in Rx | (Size) |
|------------------|---|-----------------|--------|
| 3' | GGTTAATCAGATCTAGATTAGATTAGATGTACCTAGG 5' | dA* + dCGT | (41) |
| 5' | : : : : : | dA* | (38) |
| | GGATCCATGTAGATTAGATTAGATCTAGACTAATTGGatcc | dA* + ddT | (39) |
| | GGATCCATGTAGATTAGATTAGATCTAGACTAATTGGa | dA* + dCT + ddG | (41) |
| | GGATCCATGTAGATTAGATTAGATCTAGACTAATTGGat | | |
| | GGATCCATGTAGATTAGATTAGATCTAGACTAATTGGatcc | | |
| 3' | GGTTAATCAGATCTAGATTAGATTAGATGTACCTAGG 5' | dA* + dCGT | (46) |
| 5' | : : : : : : : | dA* | (-) |
| | GGATCCATGTAGATTAGATTAGATCTAGACTAATTGGcatggatcc | dA* + ddT | (-) |
| | GGATCCATGTAGATTAGATTAGATCTAGACTAATTGG | dA* + dCT + ddG | (41) |
| | GGATCCATGTAGATTAGATTAGATCTAGACTAATTGG | | |
| | GGATCCATGTAGATTAGATTAGATCTAGACTAATTGGcatg | | |
| | GGTTAATC-AGATCTAGATTAGATTAGATGTACCTAGG 5' | | |
| | : : : : : : : | dA* + dCGT | (51) |
| | GGATCCATGTAGATTAGATTAGATCTAGA-CTAATTGGatcctacatggatcc | dA* | (38) |
| | GGATCCATGTAGATTAGATTAGATCTAGA-CTAATTGGa | dA* + ddT | (39) |
| | GGATCCATGTAGATTAGATTAGATCTAGA-CTAATTGGat | dA* + dCT + ddG | (46) |
| | GGATCCATGTAGATTAGATTAGATCTAGA-CTAATTGGatcatcatg | | |

Figure 4

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Figure 5

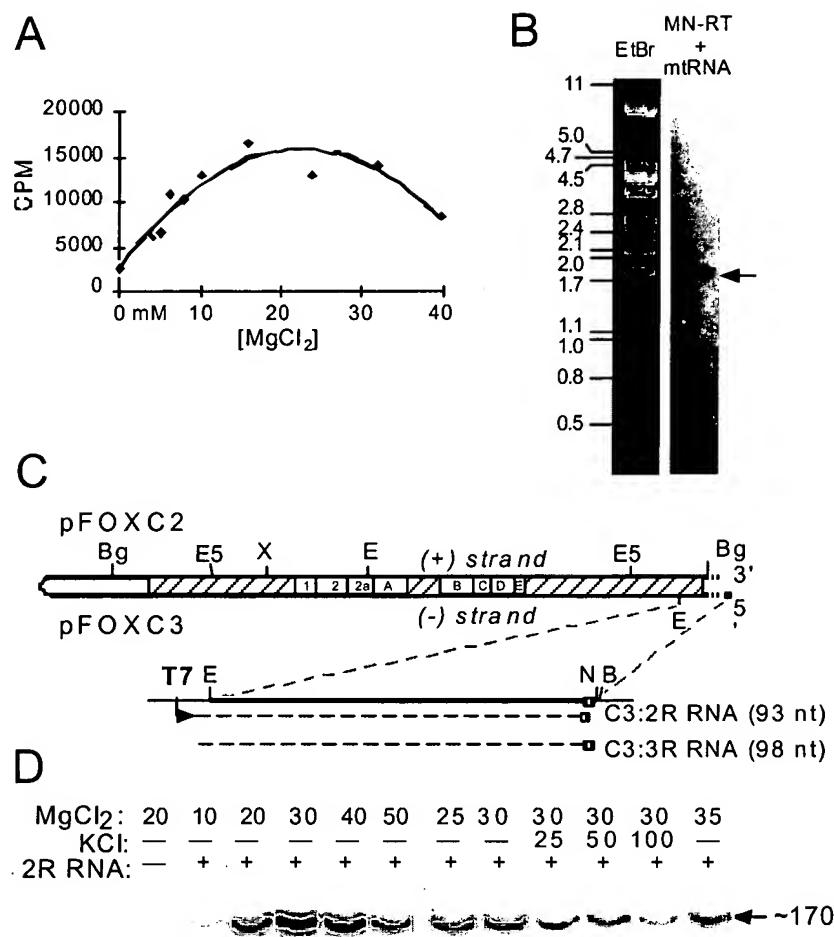


Figure 6

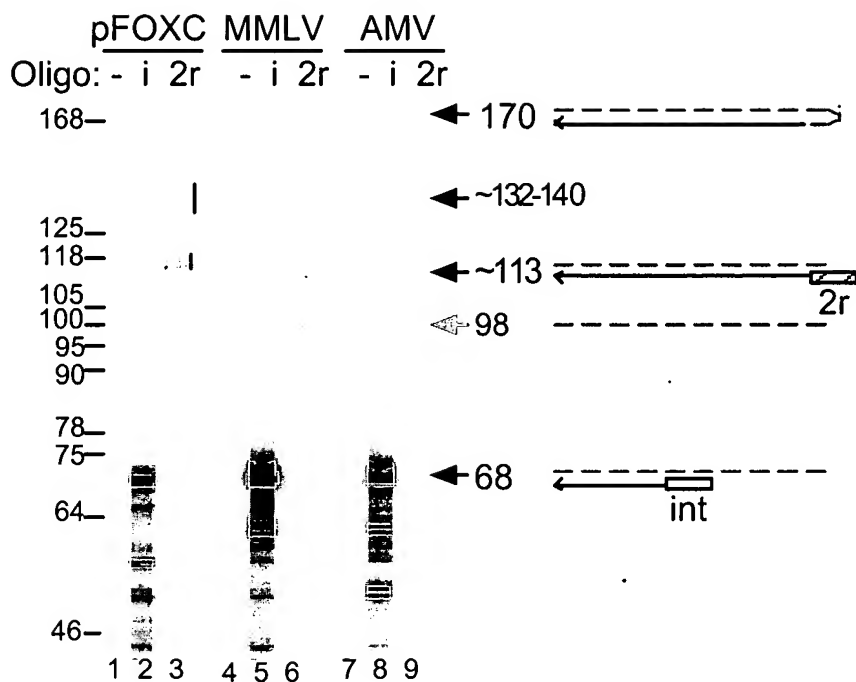


Figure 7

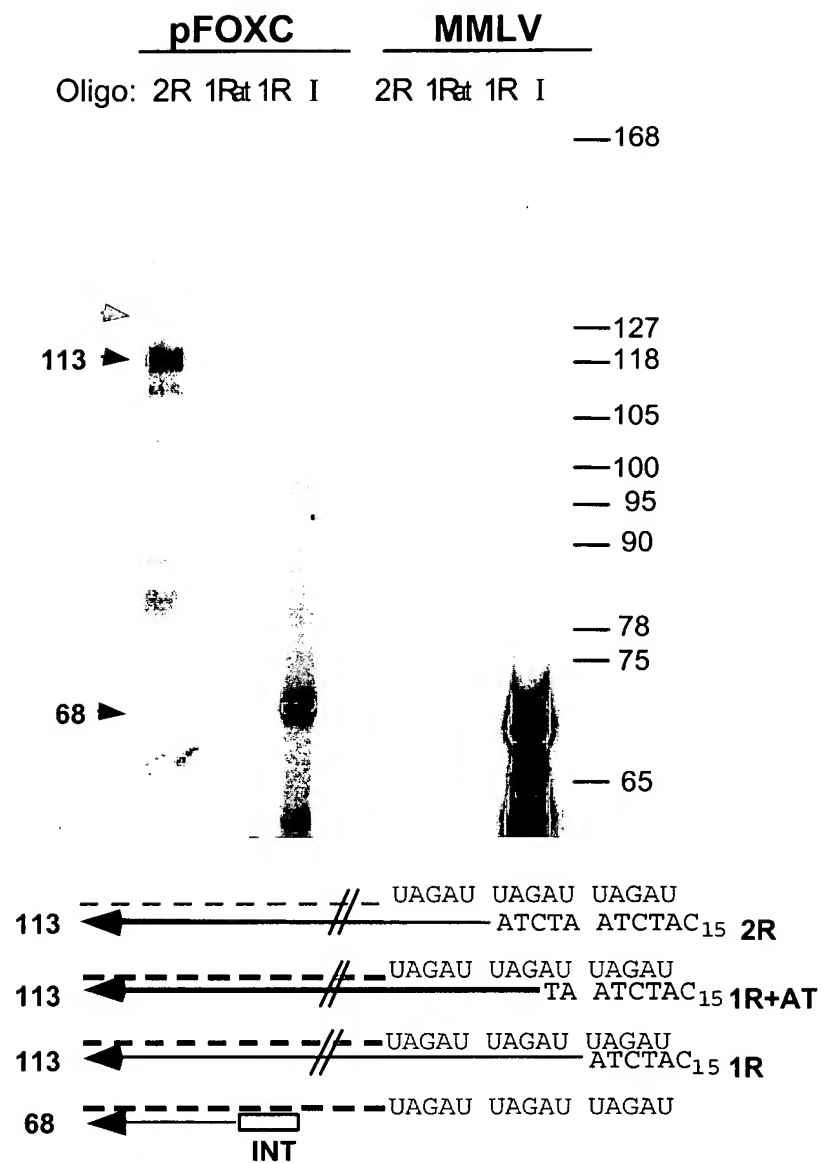


Figure 8

